Index of Claims



Application No.

10/648,997

Examiner

Stephen M. Johnson

Applicant(s)

HENGSTENBERG ET AL.

**Art Unit** 

3641

| √. | Rejected |
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| =  | Allowed  |

(Through numeral) Cancelled Restricted

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| Α | Appeal   |
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| o | Objected |

| Cla      | Date                             |  |          |  |          |          |  |          |               |        |
|----------|----------------------------------|--|----------|--|----------|----------|--|----------|---------------|--------|
| - Oic    |                                  |  |          |  | <u> </u> | Ĺ        | Т  | _        | $\dashv$      |        |
| Final    | Original                         | 6/5/04   |          |  |          | ,        |  |          |               |        |
|          | 1<br>2<br>3<br>4<br>5            | ٧  |          |  |          |          |  |          |               |        |
|          | 2                                | ٧  |          |  |          |          |  |          |               |        |
|          | 3                                | ٧  |          |  |          |          |  |          |               |        |
|          | 4                                | ٧  |          |  |          |          |  |          |               |        |
|          | 5                                | ٧  |          |  |          |          |  |          |               |        |
|          | 6                                | ٧  |          |  |          |          |  |          |               |        |
|          | 6<br>7                           | V  |          |  |          |          |  |          |               |        |
|          | 8                                | V  |          |  |          |          |  |          |               |        |
|          | 9                                | v  |          |  |          |          |  |          |               |        |
|          | 10                               | ٧  |          |  |          | Г        |  |          |               |        |
|          | 11                               | v  | Г        |  |          |          |  |          |               |        |
|          | 12                               | v  | Τ        |  |          |          |  |          |               |        |
|          | 13                               | v  |          |  | Г        |          |  |          |               |        |
|          | 11<br>12<br>13<br>14<br>15<br>16 | v  |          |  |          | Т        |  | _        |               |        |
| -        | 15                               | v  | 一        |  |          |          |  |          |               |        |
|          | 16                               | v  | <u> </u> |  |          |          |  |          |               |        |
|          | 17                               | v  | T        |  |          | 一        |  |          |               |        |
| _        | 18                               | v  | 1        |  | <u> </u> | İΤ       |  |          | _             |        |
|          | 18<br>19                         | v  | T        | T  | _        | <b> </b> |  |          | _             |        |
| <u> </u> | 20                               | v  | T        |  |          | 一        | <del>                                     </del> |          | $\overline{}$ |        |
|          | 21                               | Ė  | <u> </u> | T  | ┪        | ✝        | 一  |          |               |        |
|          | 22                               | H  | $\vdash$ | <del>                                     </del> | $\vdash$ | 一        | $\vdash$   |          |               |        |
|          | 21<br>22<br>23                   | t  | -        | T  | $\vdash$ | $\vdash$ | T  | _        |               | $\Box$ |
|          | 24                               | <del>                                     </del> |          | <u> </u>   | T        | $\vdash$ | -  |          | $\vdash$      |        |
|          | 24<br>25                         | T  |          | T  |          | 1        |  | Г        |               |        |
|          | 26                               | ┢  | 1        | T  |          |          | Τ  |          |               |        |
|          | 26<br>27                         | T  | t        | <u> </u>   |          | Ī        | _  |          | Г             |        |
|          | 28                               |  |          |  | T        | T        | $\top$   | $\vdash$ |               |        |
| <u> </u> | 29                               | T  | T        | 1  |          | Т        | <del>                                     </del> | Г        |               |        |
| <b>—</b> | 30                               | 1  | T        |  | 1        |          | $\vdash$   | T-       |               |        |
|          | 31                               |  | T        |  | T-       |          |  |          |               | П      |
|          | 32                               | $\vdash$   | T        |  |          | 1        |  | Г        | T             |        |
|          | 33                               | T  | †        | $\vdash$   | T        | 1        |  |          |               | ТΠ     |
|          | 34                               | T  |          |  |          | Т        |  |          |               |        |
|          | 34<br>35                         | 1  |          | Т  |          |          |  |          |               | П      |
|          | 36                               |  | T        | Г  | 1        | T        | T  | T        |               |        |
|          | 37                               |  |          | Т  | Г        |          |  | Γ        |               |        |
|          | 38                               | Г  |          | $\top$   |          |          |  |          | П             | П      |
|          | 39                               |  |          |  |          | T-       | П  |          |               |        |
|          | 40                               |  |          |  | 1        | Ï        | Τ  | Г        | T             |        |
|          | 41                               |  | 1        | 1  |          |          | Τ  |          | Г             |        |
|          | 42                               | $I^-$  | 1        |  |          |          |  |          | L             |        |
|          | 43                               |  | 1        |  |          |          |  |          |               |        |
|          | 44                               |  | 1        | 1  | Т        | T        | Τ  |          |               |        |
|          | 45                               | Ī  | T        | 1  | Τ        | Τ        |  |          |               |        |
|          | 46                               | 1  | T        | 1  | T        | 1        | 1  | Π        | Γ             |        |
|          | 47                               | T  | 1        | T  |          | $\top$   | 1  |          |               |        |
|          | 48                               |  |          |  | Т        | Τ        |  | Π        | П             |        |
|          | 49                               | T  | T        |  |          | $\top$   | Т  | Π        | T             |        |
|          | 50                               | Т  | T        | Τ  | Т        | T        | Т  | Т        | T             | П      |

| Cla         | im                         |                |              |              | [            | Date     | •  |  |              |              |
|-------------|----------------------------|----------------|--------------|--------------|--------------|----------|--|--|--------------|--------------|
|             |                            |                |              |              |              |          |  |  |              |              |
| m           | Original                   |                |              |              |              |          |  |  |              | 1            |
| Final       | īĝi                        |                |              |              |              |          |  |  |              |              |
| -           | 0                          |                |              |              | 1            |          |  |  |              |              |
| -           | 51                         | _              | -            |              |              | -        |  |  | -            |              |
|             | 50                         | _              | _            | _            | ┝            | -        |  | -  |              |              |
| $\vdash$    | 52                         |                |              |              |              | Н        |  | _  |              |              |
|             | 53                         | _              | ┝            | -            | $\vdash$     | -        | -  |  | -            |              |
| <u> </u>    | 51<br>52<br>53<br>54<br>55 |                |              |              | -            | -        | $\vdash$   |  |              |              |
|             | 55                         | -              |              | H            | ⊢            | -        |  | _  | _            |              |
| <u> </u>    | 56                         | _              | <del> </del> | -            | ⊢            | ⊢        | H  |  | -            |              |
| -           | 57                         | _              | ⊢            | -            | ļ            | ┢        |  | <u> </u>   |              |              |
|             | 58                         | <u> </u>       | <u> </u>     | ⊢            | ├_           |          | -  | _  | _            | _            |
|             | 59                         | ļ              | _            |              | <u>_</u>     |          | _  | <u> </u>   |              |              |
|             | 60                         | _              | <u> </u>     |              | L.           |          |  |  | _            | _            |
| <u></u>     | 61                         | _              | L_           | <u></u>      | <u> </u>     | oxdot    | ļ  | <u> </u>   | _            | _            |
| L           | 62                         |                | _            | <u> </u>     |              | <u> </u> | <u> </u>   | L  |              |              |
|             | 63                         |                |              | <u> </u>     | L            | _        | L  | ļ  | _            | _            |
|             | 64                         |                |              |              |              | L        |  |  |              | <u> </u>     |
|             | 65                         | L              | L            | L            | L            | L        |  |  |              |              |
|             | 63<br>64<br>65<br>66       |                |              |              |              |          |  |  |              | L            |
|             | 67                         |                |              | Γ            |              |          |  |  |              |              |
|             | 68                         | _              |              |              |              |          | Г  | T  |              |              |
|             | 68<br>69                   |                |              | Г            |              | $\Box$   |  |  |              |              |
|             | 70                         |                | ·            | Т            |              | 1        |  |  |              |              |
|             | 71                         | $\vdash$       |              |              |              |          | <del> </del>                                     |  |              | T            |
|             | 72                         | -              | $\vdash$     | T            |              | 1        | $\vdash$   |  | -            |              |
| <b>-</b>    | 73                         | $\vdash$       | 1            | <del> </del> | t            | $\vdash$ | <del>                                     </del> | $\vdash$   | $\vdash$     | -            |
| <del></del> | 73<br>74<br>75             | H              | ┼            | ╁╌           | ╁            |          | ╁  | $\vdash$   | -            | $\vdash$     |
|             | 75                         | <del>  -</del> | $\vdash$     | ╁            | ╁╌           | $\vdash$ | H  | <del>                                     </del> |              | ┢            |
| -           | 76                         | $\vdash$       | -            | ┼            | ╁            | 一        | -  | $\vdash$   | $\vdash$     | <del> </del> |
| -           | 76<br>77                   | <del> </del>   | ├            | ╁            | ╁╌           | ├        | ┢  |  |              |              |
| <b>-</b>    | 78                         | -              | +            | ╆            | ├            | ╁        | ⊢  | ╁  | ┢            | $\vdash$     |
| -           | 79                         | ₩              | ╁╌           | ╁            | ╁            | ├        | ╁  | ╁  | -            | ├            |
| -           | 1/9                        | ├-             | ╁            | ┼─           | ╁            | ╀        | ├  | ┢  | -            | ┢            |
|             | 80                         | ├-             | ⊢            | -            | ╀            | ╄        | ⊢  | ┼  | ┢            | ⊢            |
|             | 81                         | ├-             | ╀            | ╄            | ┼            | ┢        | ├-   | -  | -            | -            |
| <u> </u>    | 82                         | -              | ┼            | +            | +            | ╀        | 1  | ₩  | <del> </del> | -            |
| <u></u>     | 83                         | <b> </b>       | ╀            | ╄-           | -            | ⊢        | $\vdash$   |  | <u> </u>     | $\vdash$     |
| <u> </u>    | 84<br>85                   | $\vdash$       | ↓_           | ₩            | $\vdash$     |          | <del> </del>                                     | 1—   | ļ            |              |
| <u> </u>    | 85                         | 1_             | -            | $\perp$      |              | $\vdash$ | 1  | 1  | <u> </u>     | _            |
|             | 86                         | $\vdash$       | ₩            | 1            | <del> </del> | -        | 1  | -  | <del> </del> | -            |
|             | 87                         | 1_             | ↓_           |              | ļ            |          | 1  | 1_   | <u> </u>     | -            |
| <u></u>     | 88                         | _              | <u> </u>     | 1_           | _            | _        | ↓_   | ↓_   | _            | <u> </u>     |
|             | 89                         | 上              | 1_           | $\perp$      | $\perp$      | <u> </u> | 1  | $\perp$  | _            | <u> </u>     |
|             | 90                         | 1_             |              | L            | 1_           | _        | $\perp$  |  | L            |              |
|             | 91                         |                | L            |              | L            |          | <u> </u> .                                       |  |              |              |
|             | 92                         | $\Box$         |              |              | L            |          |  | L  | $\perp$      | 匚            |
|             | 93                         |                |              | $\perp$      |              |          | L  | L  | L            | L            |
|             | 94                         | Г              | Γ            | Γ            | T            |          |  |  |              |              |
|             | 95                         | Τ              |              |              |              | Τ        | Τ  |  |              |              |
|             | 96                         | T              | 1            | Т            | 1-           | T        | T  | Т  |              |              |
|             | 97                         | 1              | T            | T            | †            | $\top$   | 1  | T  |              | T            |
|             | 98                         | 1              | T            | $\dagger$    | +            | 1        | †  | T  | T            | 1            |
| $\vdash$    | 99                         | +-             | t            | t            | $\dagger$    | 1-       | $\top$   | T  | $\vdash$     |              |
|             | 100                        | +              | +            | +            | +            | 1-       | +  | t  | $\vdash$     | t            |
| Ŀ           | T100                       | _              | ı            |              |              | 1_       | т—   |  | _            | _            |

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|--|---------------------------------|--|--------------|----------|--|----------|----------|----------------|--------------|---|
|  |                                 |  |              | ī        |  |          |          |                | $\dashv$     |   |
| Final  | Original                        |  |              |          |  |          |          |                |              |   |
| ᇤ  | Ē                               |  |              |          |  |          |          | ļ              | . 1          | ĺ                                       |
|  | Ō                               |  |              |          |  |          |          | ì              |              |   |
|  |                                 |  | -            | $\dashv$ |  |          |          |                |              |   |
|  | 101<br>102                      | -  |              |          |  |          |          |                |              | $\neg$                                  |
|  | 103                             |  |              |          | _  |          |          |                |              | $\dashv$                                |
|  | 104                             |  |              |          |  | -        | -        |                | $\vdash$     |   |
|  | 105                             |  | -            |          | _  |          | -        |                | _            | -                                       |
|  | 106                             | $\vdash$   |              | $\vdash$ |  | $\vdash$ |          | -              |              |   |
|  | 107                             |  |              | Н        | _  | -        | H        |                |              |   |
|  | 108                             | -  |              |          |  | -        |          |                |              | -                                       |
|  | 109                             |  | _            | -        | -  |          |          | $\vdash$       |              |   |
|  | 110                             | H  |              |          |  |          |          |                |              | $\dashv$                                |
|  | 111                             |  | _            |          |  | ,        |          |                |              | $\dashv$                                |
|  | 112                             | $\vdash$   |              |          |  |          | $\vdash$ | -              | -            |   |
|  | 113                             |  | -            | $\vdash$ |  | _        | П        |                |              | Н                                       |
|  | 114                             | H  |              | -        |  | $\vdash$ | H        |                |              | H                                       |
|  | 111<br>112<br>113<br>114<br>115 | $\vdash$   |              |          | $\vdash$   | $\vdash$ |          |                | $\vdash$     | $\vdash$                                |
|  | 116                             | _  | $\vdash$     | $\vdash$ | <del> </del>                                     | $\vdash$ |          | $\vdash$       | <del> </del> | H                                       |
|  | 1447                            |  | -            | $\vdash$ | -  | 1        | $\vdash$ | $\vdash$       | $\vdash$     | H                                       |
|  | 117                             |  | -            | _        |  | $\vdash$ | ┢        | -              |              | Н                                       |
|  | 110                             | -  | -            | $\vdash$ |  | $\vdash$ |          | H              | -            | Н                                       |
|  | 118<br>119<br>120<br>121        | $\vdash$   |              | ┢        | -  | -        | $\vdash$ | $\vdash$       |              |   |
| _  | 121                             |  | $\vdash$     | ╁        | $\vdash$   | ┢        | ╁        |                | -            | $\vdash$                                |
|  | 121                             |  | ├            |          |  | ╁        | ╁        | -              |              | Н                                       |
| -  | 122                             |  |              | -        | ├  | $\vdash$ | ├        | $\vdash$       | $\vdash$     |   |
|  | 122<br>123<br>124<br>125<br>126 | ├-   | ├            | ┢        |  | ╁        | ╁        | $\vdash$       |              | Н                                       |
|  | 125                             | ┢  | $\vdash$     | ├        | $\vdash$   | $\vdash$ | -        | -              | $\vdash$     | $\vdash$                                |
|  | 126                             | ┢  | ├─           | ┢        | -  | -        | $\vdash$ | -              |              | $\vdash$                                |
|  | 127                             |  | ┢            | ┢        | -  | ╁╾       | ┢        | -              |              | Н                                       |
| -  | 127<br>128<br>129<br>130        | <u> </u>   | $\vdash$     | -        |  | ┢        | -        |                |              | H                                       |
|  | 120                             | ╁  | ┢            | ╁        | ╁  | -        | $\vdash$ | $\vdash$       | $\vdash$     | $\vdash$                                |
| <del> </del>                                     | 130                             | ┢  | $\vdash$     | ├        | <del>                                     </del> | $\vdash$ | ┢        | ╁╌             | ┢            | Н                                       |
|  | 131                             | ┢  | 1            | ├        |  | ┢        | $\vdash$ | -              | $\vdash$     | Н                                       |
|  | 132                             | -  | -            | $\vdash$ | ┢  | ┼        | ╁        | $\vdash$       | ┢╾           | $\vdash$                                |
|  | 132<br>133                      |  | -            | -        | ⊢  | ╁        | ╁        |                | ├            | $\vdash$                                |
|  | 134                             | ┼  | <del> </del> |          | 1  | -        | ┼        | ⊢              | ╁            | $\vdash$                                |
| <del> </del>                                     | 135                             | ╁  | <del> </del> |          | ├  | 1        | +        | ├              | ╁            |   |
|  | 135<br>136                      | <del>                                     </del> | -            | ╁        | ╁  | ╁        | ╁        | <del> </del> — | ╁            |   |
|  | 137                             | $\vdash$   | ⊢            | ├        | ╁  | +        | +        | ├              | $\vdash$     | $\vdash$                                |
| <del></del>                                      | 138                             | -  | $\vdash$     | ├-       | ┢  | $\vdash$ | ╁        |                | $\vdash$     | $\vdash$                                |
|  | 139                             | -  | -            | $\vdash$ | ╁  | ╁╌       | +-       | $\vdash$       | ├-           | ╢                                       |
| <u> </u>   | 140                             | ┼  | $\vdash$     | ╁        | -  | ╁╌       | ╁        | $\vdash$       | -            | $\vdash$                                |
| <u> </u>   | 141                             | <del>                                     </del> | $\vdash$     | ╁        | ├  | ╁        | $\vdash$ | ├─             |              | ╂╾┤                                     |
| <u> </u>   | 141                             | ┼  | -            | -        | ┢  | ╁        | ┢        | -              | ┢            | $\vdash$                                |
|  | 142                             | $\vdash$   | ╀            | ┼        | +  | +        | +        |                | +            | $\vdash$                                |
|  | 143                             | $\vdash$   | 1            | +        | ├-   | +-       | $\vdash$ | $\vdash$       | -            | $\vdash$                                |
| <del>                                     </del> | 144                             | +  | +-           | +        | 1  | +        | +        | $\vdash$       | $\vdash$     | $\vdash$                                |
|  | 145                             | +-   | -            | +-       | ╀  | $\vdash$ | +        | $\vdash$       | $\vdash$     | $\vdash\vdash$                          |
|  | 146                             | +  | ₩            | ┼        | ╀  | ╀        | +-       | <del> </del>   | ├-           | $\vdash \mid$                           |
|  | 147                             | 1  | ┼—           | +        | -  | +        | +-       | $\vdash$       | -            | $\vdash$                                |
|  | 148                             | $\vdash$   | $\vdash$     | $\vdash$ | ┼  | +        | ┼-       | $\vdash$       | 1            | $\vdash$                                |
| <u> </u>   | 149                             | +  | ┼-           | -        | $\vdash$   | ┼        | +-       | ⊢              | $\vdash$     | $\vdash$                                |
| L  | 150                             | Ļ  | _            | Т        | L_   |          |          |                | Ц            | لــــــــــــــــــــــــــــــــــــــ |